

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-1: Ships Support Equipment					P-1 ITEM NOMENCLATURE LCAC EQUIPMENT BLI# - 097000							
Program Element for Code B Items:					Other Related Program Elements							
	Prior Years	ID Code	FY 2002	FY 2003	FY 2004	FY 2005	FY2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY*	1		0	3/4/0/0/0	4/1/0/16/0	4/1/0/0/5	10/4/0/0/15	10/3/7/0/19	9/1/0/0/3	0/4/4/0/0	0	41/18/11/16/42
COST (In Millions)	\$11.8		\$0.0	5.0	10.5	8.4	24.2	29.6	12.8	10.5	0.0	\$112.8
SPARES COST (In Millions)	\$0.0		\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
*Starting in FY03 Quantities are broken out as follows; 1st - Phase I SLEPs/2nd - ETF40B Engs./3rd - PTMs/4th - Gun Mounts & armor shipsets;5th - Phased Replacement. See P5/5-1.												
PROGRAM DESCRIPTION/JUSTIFICATION: The LCAC (Landing Craft Air Cushion) mission is to transport from ship-to-shore and across the beach, weapons systems, equipment and cargo to personnel of the assault elements of the Marine Air/Ground Task Force. The LCAC weighs 150 tons, is 88ft long with a beam of 47ft, rides on a cushion of air contained in a flexible skirt and is propelled by two aft mounted reversible variable pitch propellers. It is capable of speeds in excess of 40 knots. The LCAC is programmed for an SCN Service Life Extension Program (SLEP), which refurbishes the buoyancy box and upgrades key electronic components. An equipment procurement program is being conducted in OPN to replace selected SLEP electronic components and equipment which the fleet needs urgently. This program is for those craft not scheduled for the SLEP program in the near future. The new equipment will replace obsolete and unsupported technology, reduce craft equipment life cycle costs, improve supportability and contribute toward extending the life of the craft.												
ITEM DESCRIPTION/JUSTIFICATION												
LC001 - Electronics and Deep Skirt - This line will consist of procuring and installing components of the LCAC SLEP program which the fleet needs urgently prior to craft going through SLEP. This program consist of replacing current selected electronic equipments with ARC 210 and ARC 220 radios, a P80 radar unit and a PLRS/ EPLRS radio. Equipment removal and installation will take place at the two Assault Craft Units (ACUs), each of which are currently responsible for half of the craft inventory. This work will be performed on craft not scheduled to go through SLEP in the near future.												
LC002 - Engines and PTMs . ETF 40B engines and Personnel Transport Module (PTMs). These equipments need to be added to insure sufficient numbers of the LCAC Fleet will be fully mission capable in order to meet all projected missions requirements. In FY04 the 2nd SLEP LCAC will be delivered without ETF 40B engines. The ETF 40Bs are enhanced versions of the current TF40B engines and are being provided with the rest of the SLEP craft. FY03 funds are programmed to procure ETF40B for installation immediately after delivery. This will ensure that all SLEP craft have the same engine configuration. Subsequent engines procurements in FY04 and beyond are for Pack Up Kits (PUKs) that accompany fleet deployment of LCACs aboard amphibious ships. Additional ETF 40B engines will be needed for this purpose since they are being newly introduced as part of SLEP. The PUK engines will cost more than the SLEP engines. The engines being inserted into the PUKs will have to be new, as opposed to refurbished since these engines cannot be removed from existing craft. In addition the Fleet has expressed the requirement to provide additional personnel carrying capabilities on board LCACs. The Personnel Transport Modules are programmed in FY07 and FY09 to address this Fleet requirement.												
LC003 - Gun Mounts Plus Armor - In FY04 for the MK 16 Mod 8 Multi-Purpose gun mounts for existing 50 Cal machine guns and ammunition. It also provides for the light weight armor needed to protect the crew and critical equipment from small arms to 50 cal machine gun fire.												
LC004 - Phased Replacements - The replacement of significant-cost items, which only need to be replaced at extended periods of time, but well within the expected service life of the buoyancy box. Starting in FY05 the LCAC program begins with selected items. Examples include replacing propeller assemblies, windshields and lift fan assemblies. These items will be replaced on all 74 craft in scheduled availabilities based on the number of hours of operational service.												

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/ BA-1: Ships Support Equipment							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD LCAC EQUIPMENT / 097000 / 11LC								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			FY 02 & Prior Years				FY 2003			FY 2004			FY 2005			
			Total Cost				QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	
LC001	LCAC EQUIPMENT															
	Electronics & Deep Skirt															
	Material *	A	6,655				3	337	1,011	4	818	3,272	4	834	3,336	
	Installation	A	1,866						0			244			415	
	Gov't Eng. & Prog. Supp't	A	1,912						220			450			534	
	Detailed Design & Testing	A	1,347						115							
LC002	Engines & PTM															
	ETF 40B Engines	A					4	900	3,600	1	1,670	1,670	1	1,683	1,683	
	Personnel Transport Module (PTM)															
LC003	MK16 Mod 8 Gun Mounts and Lightweight Armor	A								16	307	4,912				
LC004	Phased Replacements															
	Material	A											5	357	1,785	
	Installation	A													612	
	* Note: LC001 electronics consists of 1 shipset of radios,a radar unit, and a PLRS/EPLRS unit.															
			11,780						4,946			10,548			8,365	

DD FORM 2446, JUN 86

P-1 SHOPPING LIST
ITEM NO. 16PAGE NO.
2

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 2004			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1: SHIPS SUPPORT SYSTEM					C. P-1 ITEM NOMENCLATURE LCAC EQUIPMENT / 097000			37073	SUBHEAD 11LC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY: 2003</u>										
LC001 Electronics Only	3	337	Various	10/02	SS/FP	Various	11/02	1/04	Yes	
LC002 ETF 40B Engines	4	900	NAVICP	1/03	SS/FP	VERICOR Power Systems Alpheratta, GA	7/03	4/04	Yes	
<u>FY: 2004</u>										
LC001 Electronics & Deep Skirt	4	818	Various	10/03	SS/FP	Various	1/04	6/04	Yes	
LC002 ETF 40B Engines	1	1,670	NAVICP	11/03	SS/FP	VERICOR Power Systems Alpheratta, GA	2/04	8/04	Yes	
LC003 MK 16 Mod 8 Gun Mounts & Armor	16	307	NSWC Crane	11/03	Comp/FP	TBD	2/04	06/04	No	
<u>FY: 2005</u>										
LC001 Electronics & Deep Skirt	4	834	Various	10/04	SS/FP	Various	1/05	6/05	Yes	
LC002 ETF 40B Engines	1	1,683	NAVICP	11/04	SS/FP	VERICOR Power Systems Alpheratta, GA	2/05	8/05	Yes	
LC004 Phased Replacement	5	357	NAVICP	10/04	SS/FP	TBD	1/05	9/05	No	
D. REMARKS 1. Quantities reflect a shipset of material.										

CLASSIFICATION:

Feb 04

P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: All Landing Craft Air CushionTYPE MODIFICATION: Equipment ReplacementsMODIFICATION TITLE: Various

DESCRIPTION/JUSTIFICATION:

Procurement and installation of various LCAC Equipments.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2001& Prior		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC	TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																				0.0	
PROCUREMENT																					
EQUIPMENT (MK16 GUN MTS/ARMOR)							16	4912.0												4912.0	
EQUIPMENT (LCAC Equipment)	1	6655.0			3	1011.0	4	3272.0	4	3336.0	10	8520.0	10	8750.0	9	8037.0				39581.0	
EQUIPMENT (ETF 40B ENGINES)					4	3600.0	1	1670.0	1	1683.0	4	6868.0	3	5265.0	1	1790.0	4	7304.0		28180.0	
EQUIPMENT (PTM)													7	3878.0			4	2303.0		6181.0	
EQUIPMENT PHASED REPLACEMENT									5	1785.0	15	5415.0	19	6973.0	3	1113.0				15286.0	
EQUIPMENT NONRECURRING		1347.0				115.0														1462.0	
ENGINEERING CHANGE ORDERS																				0.0	
DATA																				0.0	
TRAINING EQUIPMENT																				0.0	
SUPPORT EQUIPMENT																				0.0	
GOV'T ENG. & PROGRAM SUPT.		1912.0				220.0		450.0		534.0		549.0		558.0		444.0		351.0		5018.0	
OTHER																				0.0	
INTERIM CONTRACTOR SUPPORT																				0.0	
INSTALL COST		1866.0				0.0		244.0		1027.0		2878.0		4209.0		1449.0		543.0		12216.0	
TOTAL PROCUREMENT		11780.0		0.0		4946.0		10548.0		8365.0		24230.0		29633.0		12833.0		10501.0		0.0	

CLASSIFICATION: UNCLASSIFIED

Feb-04

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Non SLEP LCACMODIFICATION TITLE: Electronics and Deep Skirt

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Craft AvailabilityADMINISTRATIVE LEADTIME: 1 MonthPRODUCTION LEADTIME: 3 MonthsCONTRACT DATES: FY 2003: N/AFY 2004: 1/04 FY 2005: 1/05DELIVERY DATE: FY 2004: N/AFY 2004: 6/04 FY 2005: 6/05

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	1	1.9																			1	1.9
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT							3	0.2													3	0.0
FY 2004 EQUIPMENT									4	0.4											4	0.4
FY 2005 EQUIPMENT											4	0.4									4	0.4
FY 2006 EQUIPMENT											4	0.5	6	0.6							10	1.1
FY 2007 EQUIPMENT													4	0.3	6	0.6					10	0.9
FY 2008 EQUIPMENT															4	0.3	5	0.5			9	0.8
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																					0	0.0

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
In	1	0	0	0	0	0	2	1	0	0	3	1	0	0	3	3	2	0	3	4	3	0	3	4	3	0	3	2	0	0	41
Out	0	1	0	0	0	0	0	1	2	0	0	3	1	0	0	3	3	2	0	3	4	3	0	3	4	3	0	3	2	0	41

P-3A

CLASSIFICATION: **UNCLASSIFIED**

Feb-04

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)MODELS OF SYSTEMS AFFECTED: **ALL Landing Craft Air Cushion**MODIFICATION TITLE: **ETF 40B ENGINES**

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: **Craft Availability**ADMINISTRATIVE LEADTIME: **1 Months**PRODUCTION LEADTIME: **6 Months**CONTRACT DATES: FY 2003: 7/03FY 2004: 2/04FY 2005: 2/05DELIVERY DATE: FY 2003: 4/04FY 2004: 8/04FY 2005: 8/05

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT					4	0.1															4	0.1
FY 2004 EQUIPMENT							1	0.0													1	0.0
FY 2005 EQUIPMENT									1	0.0											1	0.0
FY 2006 EQUIPMENT											4	0.0									4	0.0
FY 2007 EQUIPMENT													3	0.0							3	0.0
FY 2008 EQUIPMENT															1	0.0					1	0.0
FY 2009 EQUIPMENT																	4	0.0			4	0.0
TO COMPLETE																					0	0.0

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4				
Out	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4				

Note: After FY03 ETF 40B engines are being procured for Incorporation in Pack Up Kits (PUKs) which require no installation.

P-3A

CLASSIFICATION: UNCLASSIFIED

Feb-04

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: ALL Landing Craft Air CushionMODIFICATION TITLE: MK16 GUN MOUNTS AND LIGHTWEIGHT ARMOR

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Craft AvailabilityADMINISTRATIVE LEADTIME: 3 MonthsPRODUCTION LEADTIME: 6 MonthsCONTRACT DATES: FY 2003: N/AFY 2004: 2/04 FY 2005: N/ADELIVERY DATE: FY 2003: N/AFY 2004: 6/04 FY 2005: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT							16	0.8													16	0.8
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
FY 2008 EQUIPMENT																					0	0.0
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																					0	0.0

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16				
Out	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16				

P-3A

CLASSIFICATION: **UNCLASSIFIED**

Feb-04

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)																						
MODELS OF SYSTEMS AFFECTED: <u>ALL Landing Craft Air Cushion</u> MODIFICATION TITLE: <u>LCAC Phased Replacements</u>																						
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>Craft Availability</u> ADMINISTRATIVE LEADTIME: <u>1 Month</u> PRODUCTION LEADTIME: <u>6 Months</u>																						
CONTRACT DATES: FY 2003: <u>N/A</u> FY 2004: <u>N/A</u> FY 2005: <u>1/05</u> DELIVERY DATE: FY 2003: <u>N/A</u> FY 2004: <u>N/A</u> FY 2005: <u>9/05</u>																						
(\$ in Millions)																						
Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT									4	0.6	1	0.1									5	0.7
FY 2006 EQUIPMENT											12	1.9	3	0.3							15	2.2
FY 2007 EQUIPMENT													18	3.0	1	0.2					19	3.2
FY 2008 EQUIPMENT															3	0.5					3	0.5
FY 2009 EQUIPMENT																					0	0.0
TO COMPLETE																					0	0.0

INSTALLATION SCHEDULE:																																		
	FY 2002 & Prior		FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC		TOTAL	
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
In	0		0	0	0	0	0	0	0	0	0	0	4	0	0	0	6	7	0	0	10	11	0	0	4	0	0	0	0	0	0	42		
Out	0		0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	6	7	0	0	10	11	0	0	4	0	0	0	0	0	42		

P-3A